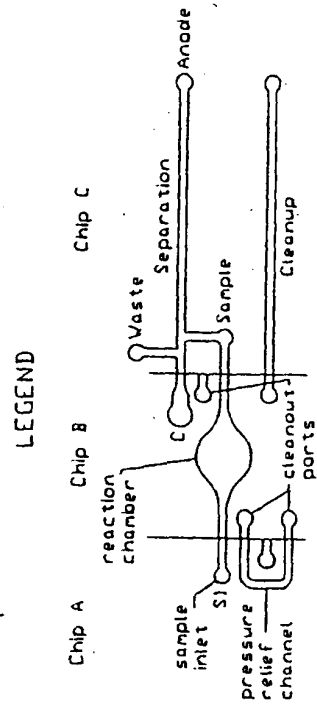
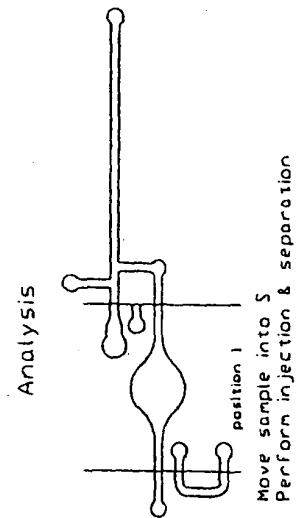
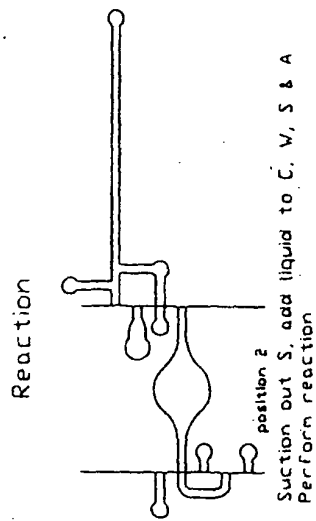
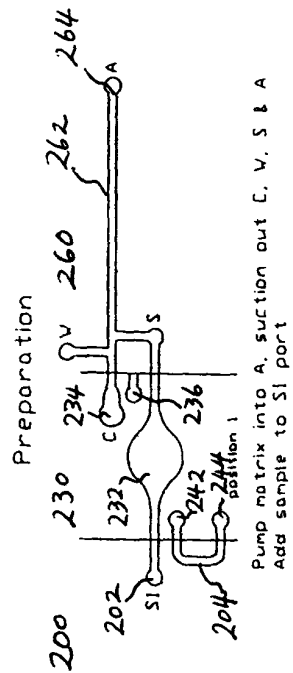


FIGURE 1



## FIGURE 2

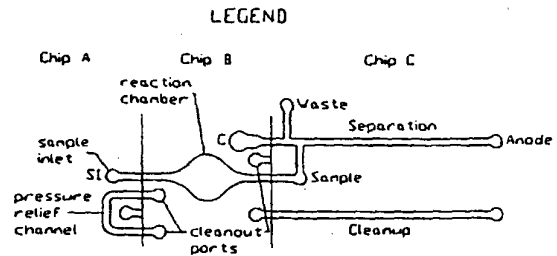
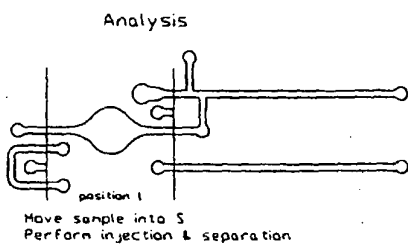
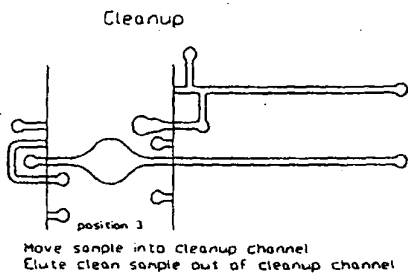
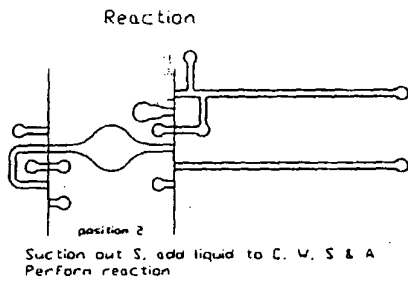
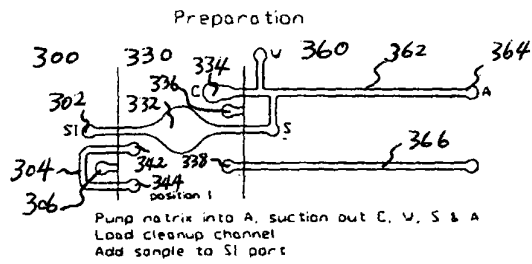


FIGURE 3

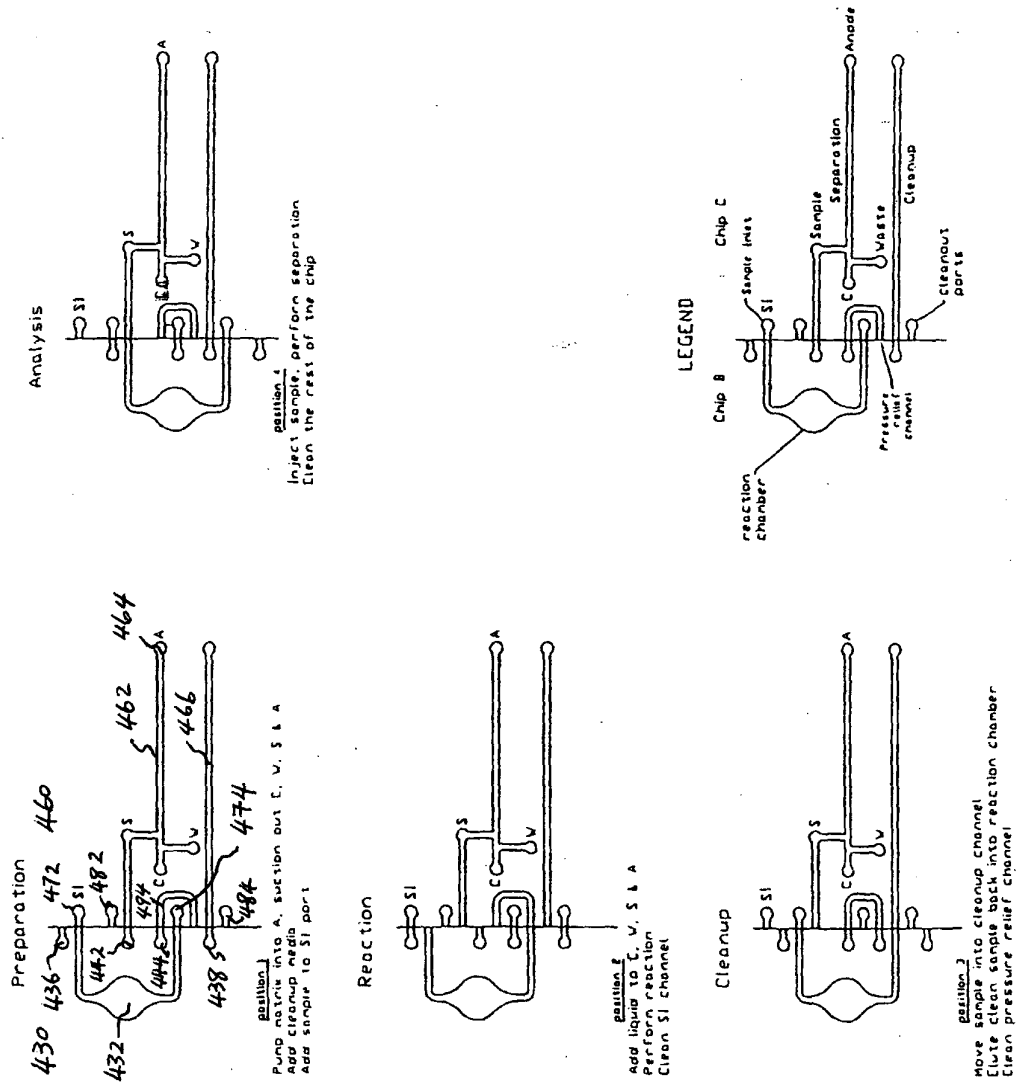
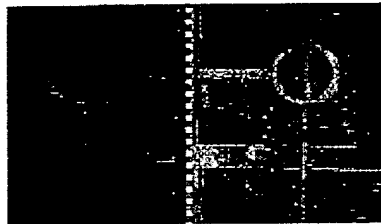
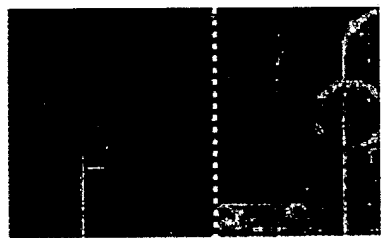


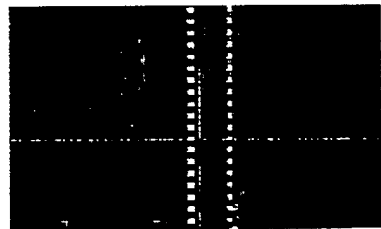
FIGURE 4



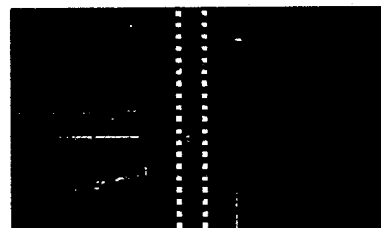
**Position 1A**



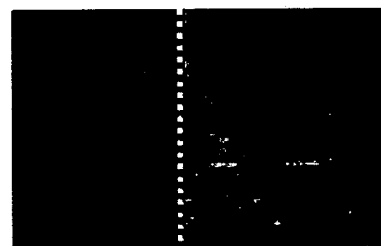
**Position 1B**



**Position 1C**



**Position 1D**



**Position 2**

**FIGURE 5**

# Valves for microchips (Rotary)

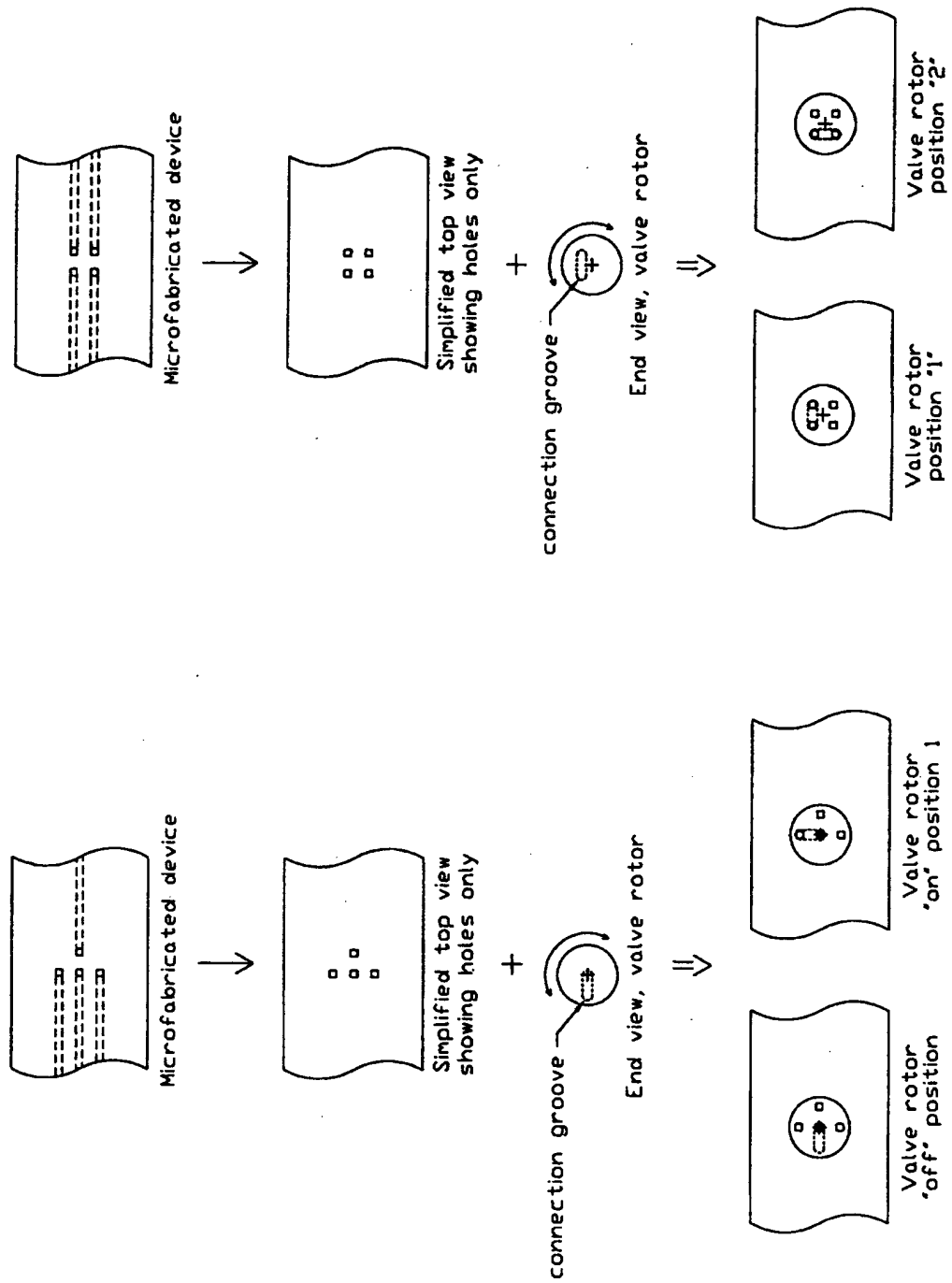
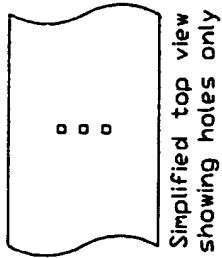
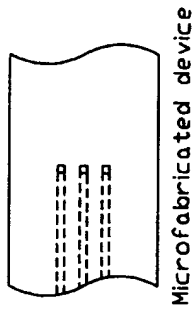


FIGURE 6B

FIGURE 6A

Valves for microchips  
(Linear, top contact)



connection groove



End view, valve slider

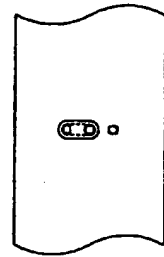
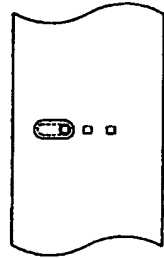
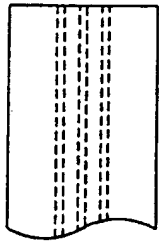


FIGURE 6C



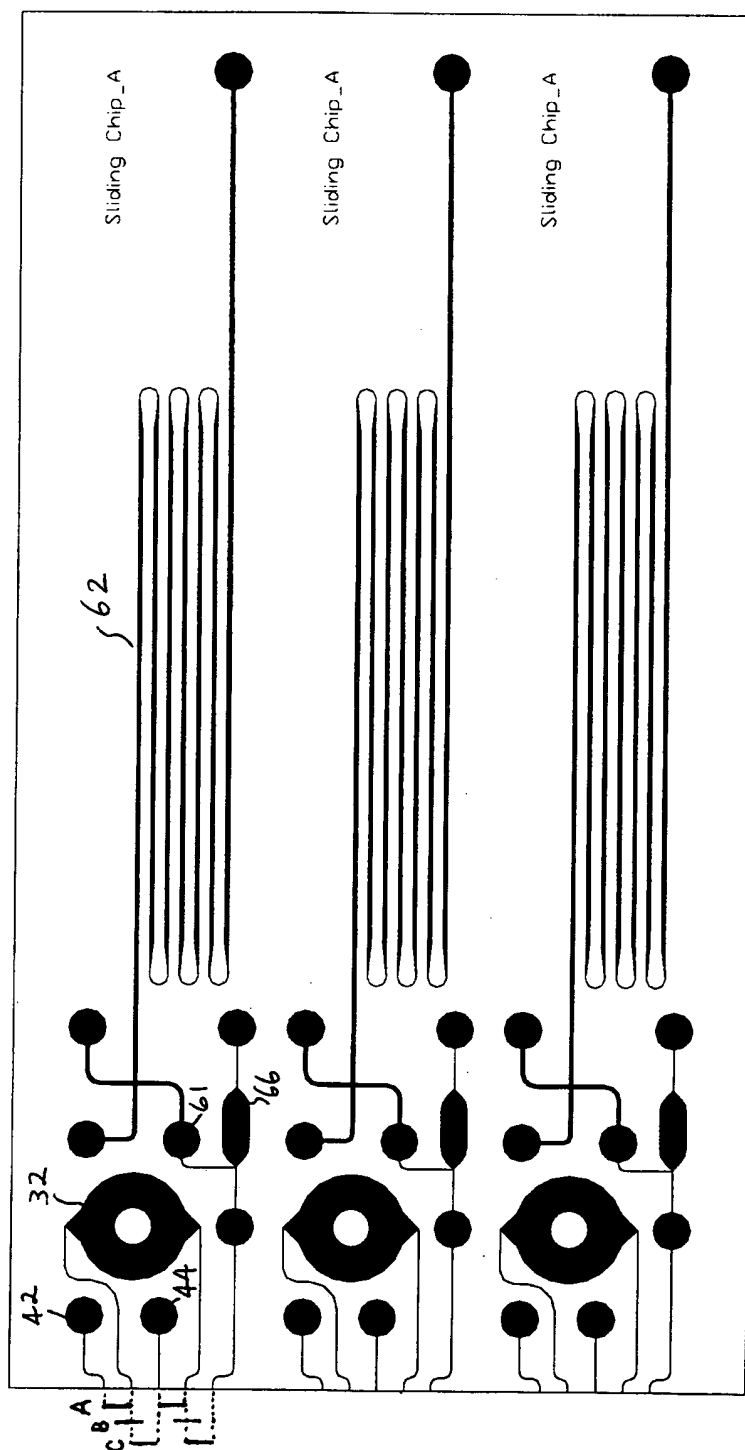
connection groove



End view, valve slider



FIGURE 6D



**FIGURE 7A**



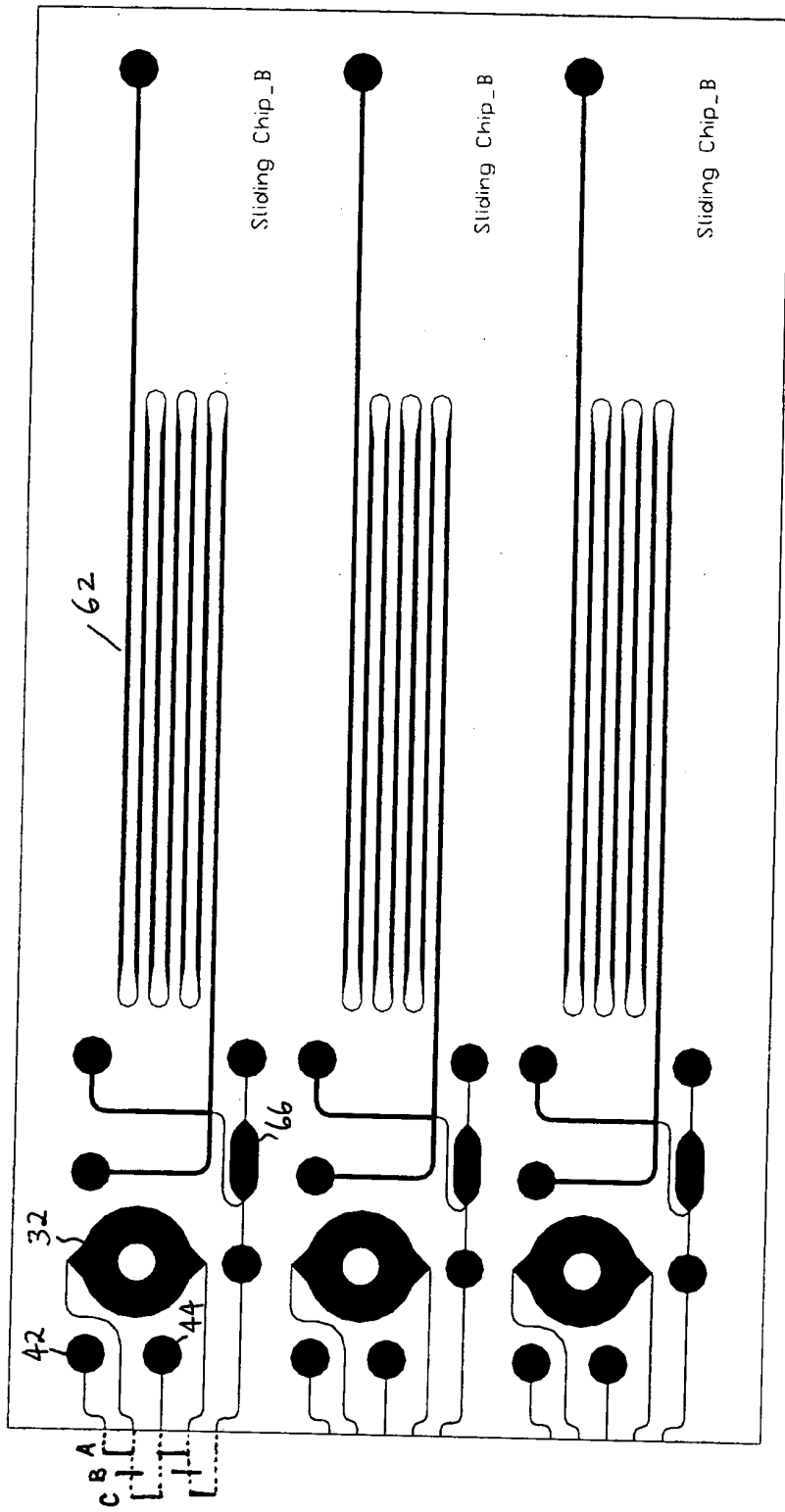


FIGURE 7B

Fabricating very small, high aspect ratio holes in glass

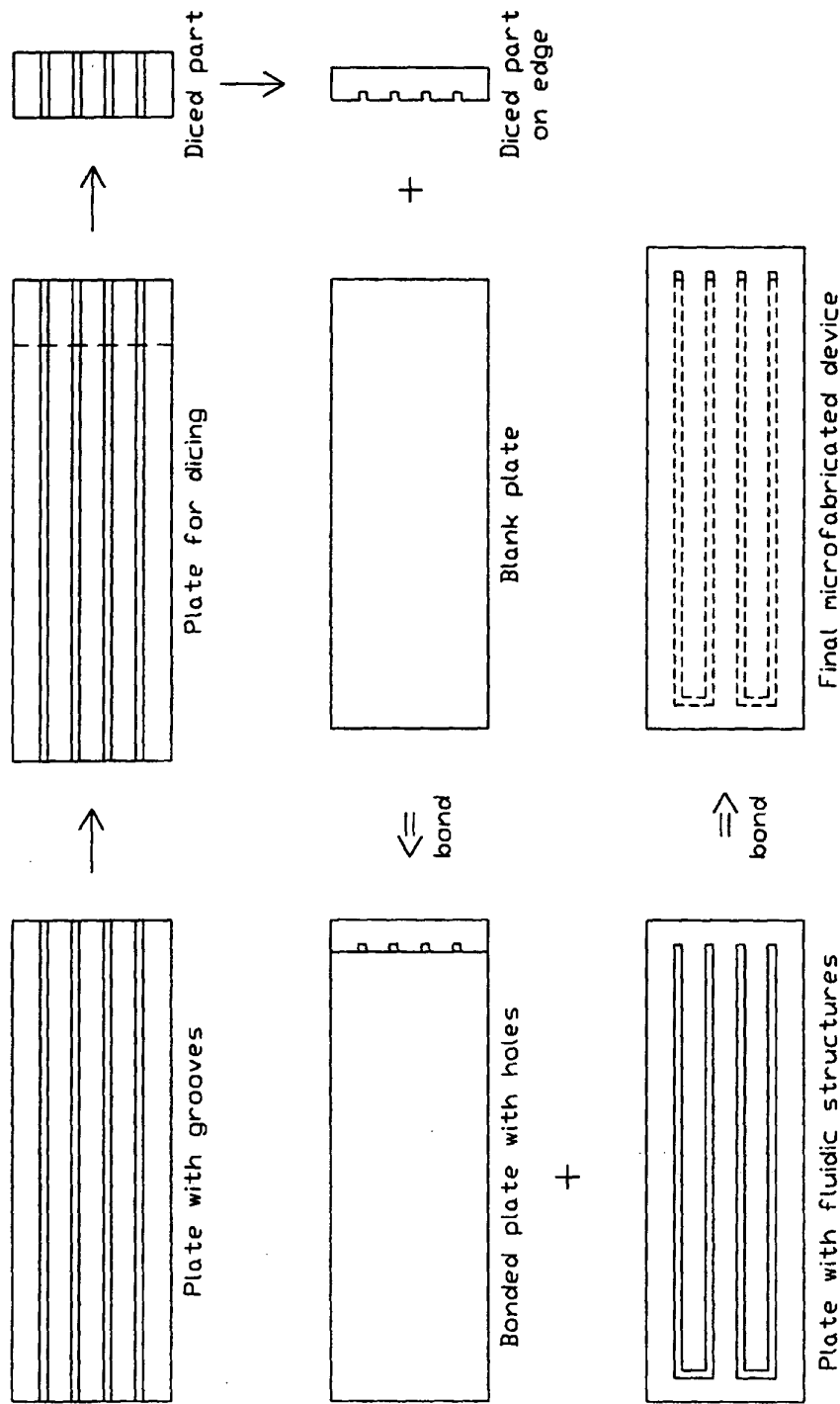


FIGURE 8